

*filed 08/17/2007*

**SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

In accordance with the duty of disclosure under 37 C.F.R. §1.56, applicants direct the Examiner's attention to the following items which are listed on the attached Form PTO-1449 (**Exhibit E**). Items 1-50 are U.S. Patents or U.S. Patent Application Publications. As permitted by 37 C.F.R. 1.98(a)(2)(ii), no copies of these items are included herewith. Copies of items 51-145 are attached hereto as Exhibits 1-94, respectively.

- /MS/ 1. U.S. Patent No. 4,824,775, issued April 25, 1989, Dattagupta;
- /MS/ 2. U.S. Patent No. 5,118,605, issued June 2, 1992, Urdea;
- /MS/ 3. U.S. Patent No. 5,174,962, issued March 3, 1999, Ju;
- /MS/ 4. U.S. Patent No. 5,302,509, issued December 4, 1994, Cheeseman;
- /MS/ 5. U.S. Patent No. 5,599,675, issued February 4, 1997, Brenner;
- /MS/ 6. U.S. Patent No. 5,654,419, issued August 5, 1997, Mathies;
- /MS/ 7. U.S. Patent No. 5,728,528, issued March 17, 1998, Mathies;
- /MS/ 8. U.S. Patent No. 5,763,594, issued June 9, 1998, Hiatt et al.;
- /MS/ 9. U.S. Patent No. 5,770,367, issued June 23, 1998, Southern;
- /MS/ 10. U.S. Patent No. 5,804,386, issued September 8, 1998, Ju;
- /MS/ 11. U.S. Patent No. 5,808,045, issued September 15, 1998, Hiatt

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/MS/ 12. U.S. Patent No. 5,814,454, issued October 29, 1998, Ju;

/MS/ 13. U.S. Patent No. 5,834,203, issued November 10, 1998,  
Katzir;

/MS/ 14. U.S. Patent No. 5,849,542, issued December 15, 1998, Reeve  
et al.;

/MS/ 15. U.S. Patent No. 5,853,992, issued December 29, 1998,  
Glazer;

/MS/ 16. U.S. Patent No. 5,869,255, issued February 9, 1999,  
Mathies;

/MS/ 17. U.S. Patent No. 5,872,244, issued February 16, 1999, Hiatt  
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al.;

/MS/ 20. U.S. Patent No. 5,945,283, issued August 31, 1999, Kwok;

/MS/ 21. U.S. Patent No. 5,952,180, issued September 14, 1999, Ju;

/MS/ 22. U.S. Patent No. 6,028,190, issued February 28, 2000,  
Mathies;

/MS/ 23. U.S. Patent No. 6,046,005, issued April 4, 2000, Ju;

/MS/ 24. U.S. Patent No. 6,074,823, issued June 13, 2000, Hubert;

- /MS/ 25. U.S. Patent No. 6,136,543, issued October 24, 2000, Anazawa et al.;
- /MS/ 26. U.S. Patent No. 6,197,557, issued March 6, 2001, Markarov et al.;
- /MS/ 27. U.S. Patent No. 6,214,987, issued April 10, 2001, Hiatt et al.;
- /MS/ 28. U.S. Patent No. 6,218,118, issued April 17, 2001, Sampson;
- /MS/ 29. U.S. Patent No. 6,218,530, issued April 17, 2001, Rothschild et al.;
- /MS/ 30. U.S. Patent No. 6,232,465, issued May 15, 2001, Hiatt et al.;
- /MS/ 31. U.S. Patent No. 6,312,893, issued November 6, 2001, Van Ness et al.;
- /MS/ 32. U.S. Patent No. 6,316,230, issued November 13, 2001, Egholm;
- /MS/ 33. U.S. Patent No. 6,361,940 issued March 26, 2002, Van Ness et al.;
- /MS/ 34. U.S. Patent No. 6,613,508, issued September 2, 2003, Ness et al.;
- /MS/ 35. U.S. Patent No. 6,627,748, issued September 30, 2003, Ju et al.;
- /MS/ 36. U.S. Patent No. 6,664,079, issued December 16, 2003, Ju et

al.;

- /MS/ 37. U.S. Patent No. 6,787,308, Balasubramanian et al., issued September 7, 2004;
- /MS/ 38. U.S. Patent No. 6,833,246, issued to Balasubramanian et al. on December 21, 2004;
- /MS/ 39. U.S. Patent No. 7,057,026, issued to Barnes et al. on June 6, 2006;
- /MS/ 40. U.S. Patent No. 7,074,597, issued July 11, 2006, Ju;
- /MS/ 41. U.S. Application Publication No. 2002/0168642 A1, published November 14, 2002 (Drukier);
- /MS/ 42. U.S. Application Publication No. 2003/0008285 A1, published January 9, 2003 (Fischer);
- /MS/ 43. U.S. Application Publication No. 2003/0022225 A1, published January 30, 2003 (Monforte et al.);
- /MS/ 44. U.S. Application Publication No. 2003/0027140, published February 6, 2003 (Ju et al.);
- /MS/ 45. U.S. Application Publication No. 2003/0044871, published March 6, 2003 (Cutsforth et al.);
- /MS/ 46. U.S. Application Publication No. 2003/0099972, published May 29, 2003 (Olejniak et al.);
- /MS/ 47. U.S. Application Publication No. 2004/0185466, published September 23, 2004 (Ju et al.);

- /MS/ 48. U.S. Application Publication No. 2005/0032081, published February 10, 2005 (Ju et al.);
- /MS/ 49. U.S. Application Publication No. 2006/0057565, published March 16, 2006 (Ju et al.);
- /MS/ 50. U.S. Application Publication No. 2006/0003352, published January 5, 2006 (Lipkin et al.);
- /MS/ 51. PCT International Publication No. WO 91/06678, May 16, 1991 (Exhibit 1);
- /MS/ 52. PCT International Publication No. WO 00/53805, September 14, 2000 (Exhibit 2);
- /MS/ 53. PCT International Publication No. WO 01/92284, December 6, 2001 (Exhibit 3);
- /MS/ 54. PCT International Publication No. WO 01/27625 A1, published April 19, 2001 (Exhibit 4);
- /MS/ 55. PCT International Publication No. WO 02/079519 A1, published October 10, 2002 (Exhibit 5);
- /MS/ 56. PCT International Publication No. WO 02/22883 A1, published March 21, 2002 (Exhibit 6);
- /MS/ 57. PCT International Publication No. WO 02/29003, published April 11, 2002 (Exhibit 7);
- /MS/ 58. PCT International Publication No. WO 04/007773, published January 22, 2004 (Exhibit 8);
- /MS/ 59. PCT International Publication No. WO 04/055160, published

January 22, 2004 (Exhibit 9);

- /MS/ 60. PCT International Publication No. WO 05/084367, published September 15, 2005 (Exhibit 10);
- /MS/ 61. PCT International Publication No. WO 06/073436, published July 13, 2006 (Exhibit 11);
- /MS/ 62. PCT International Publication No. WO 07/002204, published January 4, 2007 (Exhibit 12);
- /MS/ 63. European Patent Application No. EP 0992511 A, Rapigene Inc., published April 12, 2000 (Exhibit 13);
- /MS/ 64. Axelrod, V. D. et al. (1978) Specific termination of RNA polymerase synthesis as a method of RNA and DNA sequencing. *Nucleic Acids Res.* 5(10):3549-3563 (Exhibit 14);
- /MS/ 65. Badman, E. R. et al. (2000) A. Parallel Miniature Cylindrical Ion Trap Array. *Anal. Chem.* 72:3291-3297 (Exhibit 15);
- /MS/ 66. Badman, E. R. et al. (2000) Cylindrical Ion Trap Array with Mass Selection by Variation in Trap Dimensions. *Anal. Chem.* 72:5079-5086 (Exhibit 16);
- /MS/ 67. Benson, S. C., Mathies, R. A. and Glazer, A. N. (1993) Heterodimeric DNA-binding dyes designed for energy transfer: stability and applications of the DNA complexes. *Nucleic Acids Res.* 21:5720-5726 (Exhibit 17);
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- /MS/ 110. Tang, K., Fu, D. J., Julien, D., Braun, A., Cantor, C. R., and Koster H. (1999) Chip-based genotyping by mass spectrometry. *Proc. Natl. Acad. Sci. USA.* 96:10016-10020 (**Exhibit 59**);
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2004 in connection with European Patent Application No. 01  
97 7533 (**Exhibit 68**);

/MS/ 120. Supplementary European Search Report issued February 9,  
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/MS/ 121. Supplementary European Search Report issued May 25, 2005 in  
connection with European Patent Application No. 02 72  
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/MS/ 122. Supplementary European Search Report issued June 7, 2005 in  
connection with European Patent Application No. 01 96 8905  
(**Exhibit 71**);

/MS/ 123. International Preliminary Examination Report issued on  
3/18/05 in connection with PCT/US03/21818 (**Exhibit 72**);

/MS/ 124. International Preliminary Examination Report issued on  
4/3/03 in connection with PCT/US01/31243 (**Exhibit 73**);

/MS/ 125. International Preliminary Examination Report issued on  
2/25/03 in connection with PCT/US01/28967 (**Exhibit 74**);

/MS/ 126. International Preliminary Examination Report issued on  
3/17/03 in connection with PCT/US02/09752 (**Exhibit 75**);

/MS/ 127. International Preliminary Report on Patentability issued on  
9/5/06 in connection with PCT/US05/006960 (**Exhibit 76**);

/MS/ 128. International Search Report issued 5/13/02 in connection  
with PCT/US01/31243 (**Exhibit 77**);

/MS/ 129. International Search Report issued 1/23/02 in connection  
with PCT/US01/28967 (**Exhibit 78**);

- /MS/ 130. International Search Report issued 9/18/02 in connection with PCT/US02/09752 (**Exhibit 79**);
- /MS/ 131. International Search Report issued 9/26/03 in connection with PCT/US03/21818 (**Exhibit 80**);
- /MS/ 132. International Search Report issued 6/8/04 in connection with PCT/US03/39354 (**Exhibit 81**);
- /MS/ 133. International Search Report issued 11/4/05 in connection with PCT/US05/06960 (**Exhibit 82**);
- /MS/ 134. International Search Report issued 12/15/06 in connection with PCT/US05/13883 (**Exhibit 83**);
- /MS/ 135. Written Opinion of the International Searching Authority issued 10/27/05 in connection with PCT/US05/06960 (**Exhibit 84**);
- /MS/ 136. Written Opinion of the International Searching Authority issued 12/15/06 in connection with PCT/US05/13883 (**Exhibit 85**);
- /MS/ 137. Elango, N. et al. (1983) "Amino Acid Sequence of Human Respiratory Syncytial Virus Nucleocapsid Protein" Nucleic Acids Research, 11(17):5941-5951 (**Exhibit 86**);
- /MS/ 138. Buck, G.A. et al. (1999) "Design Strategies and Performance of Custom DNA Sequencing Primers", BioTechniques, 27(3):528-536 (**Exhibit 87**);
- /MS/ 139. Hafliger, D. et al. (1997) "Seminested RT-PCR Systems for Small Round Structured Viruses and Detection of Enteric

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/MS/ 141. Kokoris, M. et al. (2000) "High-throughput SNP Genotyping With the Masscode System", Molecular Diagnosis, 5(4):329-340 (Exhibit 90);

/MS/ 142. Kim, S. et al. (2003) "Multiplex Genotyping of the Human  $\beta$ 2-adrenergic Receptor Gene Using Solid-phase Capturable Dideoxynucleotides and Mass Spectrometry", Analytical Biochemistry, 316:251-258 (Exhibit 91);

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/MS/ 144. PCT International Publication No. WO/2004/018493, Solexa Ltd., March 4, 2004 (Exhibit 93); and

/MS/ 145. PCT International Publication No. WO/2004/018497, Solexa Ltd., March 3, 2004 (Exhibit 94).

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This Supplemental Information Disclosure Statement is being submitted under 37 C.F.R. §1.97(c)(2). Accordingly, applicants enclose herewith a check for ONE HUNDRED AND EIGHTY DOLLARS (\$180.00). Applicants request that the Examiner review the items listed and make them of record in the subject application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, applicants' undersigned

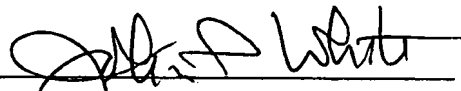


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attorney invites the Examiner to telephone him at the number provided below.

No fee, other than the enclosed total fee of \$690.00 fee, including a \$180.00 fee for filing a Supplemental Information Disclosure Statement and \$510.00 fee for a three-month extension of time is deemed necessary in connection with the filing of this Amendment and Supplemental Information Disclosure Statement. However, if any additional fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

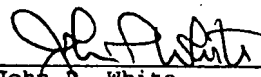
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